

## **In the news from Amateur Radio New South Wales for this week;**

Today was the first ARNSW Trash & Treasure for the year, the next will be the last Sunday in March.

As tomorrow is the Australia Day Holiday, there will be no Library at VK2WI Dural. Library operation will resume next Monday, the 4<sup>th</sup> of February.

Foundation weekends are getting under way around Sydney, next month. Locations include at the Waverley Amateur Radio Society at Rose Bay, St. George ARS in southern Sydney and Blue Mountains Amateur Radio Club at Glenbrook. All are on the weekend of the 9<sup>th</sup> and 10<sup>th</sup> February. Check their respective web sites for details. The first foundation weekend at ARNSW is in mid-March; enquiries to [education@arnsw.org.au](mailto:education@arnsw.org.au).

## Lecturers Wanted

Amateur Radio NSW is looking for one or more lecturers prepared to run an upgrade course throughout the year, to assist candidates wishing to upgrade to either standard or advanced grade licenses.

As our previous lecturer has moved away from Sydney, we are seeking a person or persons who would be interested in continuing this valuable service. This may be one person prepared to do the lecturing, as has been done in the past, or a group of several sharing the workload between them.

If you are willing and able to help with the running of the course, please contact the secretary in the first instance, at [secretary@arnsw.org.au](mailto:secretary@arnsw.org.au), by mail to PO Box 6044, Dural Delivery Centre, NSW 2158 or leave a voice message with the office, on 02 9651 1490.

*Submitter by Eric VK2VE  
Secretary ARNSW*

## **ARNSW Elections**

The next Annual General Meeting of Amateur Radio New South Wales is on Saturday the 13<sup>th</sup> of April 2019.

At the AGM, a new management council is to be appointed.

Nominations will soon be open for members who wish to be on the council for the year 2019 and 2020. Nomination forms will be available for download from the website, or from the office.

Nominations will close at midday on Saturday 2<sup>nd</sup> of March 2019.

*Peter VK2EMU*  
*Returning Officer*

Note: Amateur Radio New South Wales is a business name of the company registered as Wireless Institute of Australia New South Wales Division. This company was originally incorporated in New South Wales in 1922.

Since 2004, the company uses the business name, Amateur Radio New South Wales, to avoid confusion with the independent incorporated entity, The Wireless Institute of Australia.

## 40 Metre Dipole Buildathon

ARNSW is holding a 40 metre antenna buildathon, on Sunday the 10<sup>th</sup> of March, here at VK2WI Dural. While the day is primarily intended to be of interest to Foundation licencees, all members are of course welcome to attend.

The session will start at 10am with a brief presentation on the how and why of the dipole antenna. Following this, you will sit beside an experienced ham to assist you in constructing your own 1:1 balun. This is fairly easy, as it is in kit form, with half of the assembly already done

After completion, your dipole will be tested and following this...lunch.

The attendance fee on the day includes the antenna kit, consisting of the 1:1 balun, two insulators and 20 metres of hi-quality Kevlar antenna wire.

Also, for an additional fee we will have available kit-sets to make up some feedlines – with a 15m run of RG58 type coax, and a couple of PL-259 connectors. Again, on the day you will make this up yourself under supervision.

So, at the end of the day, you will have a fully functioning dipole antenna complete with a 1:1 balun and 15metres of feedline, ready to go on air; All of which you made yourself.

All this stage we only require an expression of interest, not confirmation of attendance – so if you are interested please send us an email, to [events@arnsw.org.au](mailto:events@arnsw.org.au) – including your name, callsign, and a contact phone number.

*AI VK2OK  
Event Co-ordinator, ARNSW*

# Weekly Solar and Geophysical Report

For the period of the 18<sup>th</sup> to the 24<sup>th</sup> of January.  
First, the summary;

Dates across the columns are	18 <sup>th</sup>	19 <sup>th</sup>	20 <sup>th</sup>	21 <sup>st</sup>	22 <sup>nd</sup>	23 <sup>rd</sup>	24 <sup>th</sup>
10cm flux	69	70	69	70	71	72	72
Fredericksburg Index (Afr)	5	2	2	2	2	10	17 estimated
Australian Index (Aaus)	5	3	1	2	3	9	10 estimated
T index	-31	-38	-31	-24	-20	-13	-20

Solar activity was very low all week.

Geomagnetic activity was quiet from the 18<sup>th</sup> to the 22<sup>nd</sup>, and quiet to unsettled on the 23<sup>rd</sup> and 24<sup>th</sup>, with the SWS magnetometer showing a weak impulse of 9 nanoTesla, at 1310UTC on the 23<sup>rd</sup>.

F2 critical frequencies in the southern Australian region again saw some depressions; 20% on the 18<sup>th</sup>, 25% during the day and 20% during the night of the 19<sup>th</sup>, 20% during the day and 15% during the night on the 20<sup>th</sup>. The 21<sup>st</sup> showed a slight improvement with frequencies near predicted, then the 22<sup>nd</sup> again showed a slight depression of 15% during the day. The 23<sup>rd</sup> remained near predicted, and the 24<sup>th</sup> was depressed 15% throughout.

Now, the forecast for the 25<sup>th</sup> to the 31<sup>st</sup> of January;

Solar activity is expected to be low.

Geomagnetic activity is expected to continue at quiet to unsettled levels on the 25<sup>th</sup> and 26<sup>th</sup>, before returning to quiet conditions.

Maximum Usable Frequencies are expected to range from near predicted monthly values, to slightly depressed.

*Data courtesy of Space Weather Services.*

## **Solar Flux Index update**

Here are the updated Solar Flux Index (SFI) figures for this week.

The figures for December were;

Minimum of 68, Average of 70, and a Maximum of 72  
With peak dates between the 9<sup>th</sup> and 13<sup>th</sup>, and the 22<sup>nd</sup> to the 23<sup>rd</sup>

Near the end of January, the prediction is a;

Minimum of 68, Average of 71, and a Maximum of 75  
With peak dates between the 2<sup>nd</sup> and 10<sup>th</sup>, and the 24<sup>th</sup> to the 31<sup>st</sup>

And looking ahead to the prediction for February, we are expecting a;

Minimum of 69, Average of 70, and a Maximum of 71  
With peak dates between the 18<sup>th</sup> to the 28<sup>th</sup>.

*Update with thanks to Noel, VK2FUL.*

[using daily data updates from :  
<http://www.swpc.noaa.gov/products/usaf-45-day-ap-and-f107cm-flux-forecast>]

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## What use is an F-call?

Tonight, we continue with the series, written and produced by Onno VK6FLAB. Each episode looks at different aspects of the diverse hobby of Amateur Radio.

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*Duration: 1m56s*

*In: "What use is an F-call?"*

*Out: "I'm Onno vk6flab"*

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For more information about this series, including transcripts and useful resources for F-calls, Onno's website is; [vk6flab.com](http://vk6flab.com), or follow him on Twitter, @VK6FLAB.

## **ARRL DX news**

Several Stations are active this weekend, taking part in the CQ World Wide 160 Metre CW contest;

TUNISIA; Ash, KF5EYY plans to be active as 3V8SF.

GEORGIA; Ilya, R3XA and Mamuka, 4L2M will be active as 4L9M and 4L2M, respectively, as Single Op/High Power entries.

MADEIRA ISLAND; Operator OM3GI will be active as CT9ABO as a Single Op/High Power entry.

CANARY ISLANDS; Operator OM5RW will be active as ED8W as a Single Op/High Power entry.

MARTINIQUE; Laurent, FM5BH will be active in the contest.

NORTHERN IRELAND; Operator SP5MXZ will be active as MI/3Z0X as a Single Op/Assisted entry.

THAILAND; Members of the HSDXA Team will be active as E2X as a Multi/Single entry.

PERU; Tom, OA4DX will be active as a Single Op/Low Power entry.

CORSICA; A group of operators will be active as TK0C, as a Multi Op entry.

INDONESIA; Yohanes, YB2DX will be active as a Single Op/High Power Entry.

In other activity this week,

SOMALIA; Ali, EP3CQ is currently active as 6O1OO until February 6.

BARBADOS ; Charles, 8P6ET is active as 8P6ET/p. Activity is on 80, 40 and 20 metres using CW and SSB. He will be active as 8P1W in the CQ World Wide 160 Metre CW contest as a Single Op/Low Power entry.



EAST MALAYSIA; Saty, JE1JKL is active as 9M6NA from Labuan Island, IOTA OC-133, until January 28, and will also be active in the CQ World Wide 160 Metre CW contest.

CHILE; Jorge, CE3YP is active with special callsign 3G3G from Santiago until December 31. Activity is on 80 to 6 metres using only FT8.

DOMINICAN REPUBLIC; Members of the Loma del Toro DX Club are active as HI1LT from Beata Island, IOTA NA-122, a first-time activation, until January 28. Activity is on the HF bands using CW, SSB, RTTY, and on various satellites.

ITALY; Dimitar, LZ1UQ and Ivan, LZ1PM are active as IH9/LZ1UQ and IH9/LZ1PM, respectively, from Pantelleria Island, IOTA AF-018, until January 31. This includes entries in the CQ World Wide 160 Metre CW and UBA DX SSB contests. In addition, station IG9/S59A is active from Lampedusa Island, IOTA AF-019, until January 30. Activity is on the HF bands and also includes an entry in the CQ World Wide 160 Metre CW contest.

FINLAND; Special event station OG60IPA is active throughout 2019, to commemorate 60 years of Finland's participation in the International Police Association.

SUDAN; John, N9MDH is active as ST2JB from Khartoum. He has been active on 15 metres using FT8.

PALAU ; Nobu, JA0JHQ is active as T88PB from Koror, and will also be active in this weekend's CQ World Wide 160 Metre CW contest.

BELIZE; Art, NN7A will be active as V31JZ/p from South Water Caye, IOTA NA-190, from January 31 to February 6. Activity will be on 80 to 10 metres using mostly CW.

CANADA; Chris, VO2AC, Frank, VO1HP and Dave, VE9CB will be active as VO2AC in the CQ World Wide 160-Metre CW contest as a Multi Op/ High Power entry. Before the contest, they may be active as VO2AC and VO2AAA on 160, 80, 60 and 40 metres, and on satellites AO-85, AO-91, and AO-92 from grid square GO11. In addition, look for special event station VD1NUQK to be active until February 26 to commemorate the USS Truxton and USS Pollux naval disaster of Newfoundland 77 years ago.

THIS WEEKEND ON THE RADIO. The CQ 160-Metre CW Contest, Winter Field Day, NCCC RTTY Sprint, QRP 80-Metre CW Fox Hunt, NCCC Sprint CW Ladder, REF CW Contest, BARTG RTTY Sprint and the UBA DX SSB Contest, are all on this weekend.

The UKEICC 80-Metre CW Contest, CWops Mini-CWT Test, Phone Fray and QRP 40-Metre CW Fox Hunt are scheduled for January 30.

The Canadian National Parks on the Air, CNPOTA, event runs throughout 2019, with special stations active from Canada's parks and historic sites.

## WICEN News

Congratulations to WICEN member Raffy VK2RF, on being awarded the Order of Australia Medal (OAM), for services to the community, in yesterday's Australia Day Honours.

The next WICEN training day will be here at ARNSW in Dural, on Sunday, 10th February.

WICEN will be at the Wyong Field Day, Sunday the 24<sup>th</sup> of February. This is a good opportunity for members to pay their annual membership. Volunteers are sought, to staff the stand.

The 2<sup>nd</sup> and 3<sup>rd</sup> of March are planned as a training weekend at Newnes, near Lithgow. This is the site of the Glow Worm Marathon, which WICEN will again support, in mid-June.

Members should remain prepared, as summer storms and fires periodically result in the services of WICEN being required.

The WICEN website is at [nsw.wicen.org.au](http://nsw.wicen.org.au) and includes a web contact form.

Facebook users will find an official WICEN NSW page, and an informal national WICEN group.

WICEN Northern Rivers holds a weekly net on Tuesdays at 8pm, on the Lismore repeater VK2RSC on 146.8 MHz, requiring a 123 Hz tone. Listen for VK2WIR.

The WICEN Mid North Coast Region meets at 3:30pm on the first Saturday of the month, at SES HQ, Central Road, Port Macquarie. The region is also running an HF net on Thursday evenings from 7pm, on the band-plan's 80 metre WICEN frequency of 3.6MHz.

WICEN ACT is part of the Canberra Region Amateur Radio Club, supporting events in the ACT and Capital Country, and on the South Coast of NSW. Dementia Australia is kicking off the 2019 Memory Walk & Jog season in Canberra, on the foreshore of Lake Burley Griffin, on the 24<sup>th</sup> of February, supported by WICEN ACT. The Canberra Two Day walk is March 30 and 31. See the WICEN and Events pages on [www.crarc.ampr.org](http://www.crarc.ampr.org).

WICEN Victoria will be supporting the 2019 Pajero Challenge, on the 9<sup>th</sup> and 10<sup>th</sup> of February, at Big River. Duncan's Run is an Ultra-Marathon on Saturday the 23<sup>rd</sup> of 23 March. The group runs a net on 3.6 MHz each Tuesday from 8:30pm local time. More information can be found on the website, at [vic.wicen.org.au](http://vic.wicen.org.au).

*Submitted by Julian VK2YJS,  
on behalf of the WICEN State Management Committee.*

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## Club News

We start this week, with news from the Oxley Region Amateur Radio Club. Their next meeting is the monthly general meeting on Saturday, the 2<sup>nd</sup> of February, in the SES Building in Port Macquarie.

The club's annual Antenna Shootout is on Sunday the 10<sup>th</sup> of February, at Tuffins Lane Sportsfields in Port Macquarie. Facilities will be available to test both home brew and commercial antennas on 6 metres, 2 metres and 70 centimetres. The day will commence with set up at 9am with a bacon and egg BBQ breakfast for early arrivals. There will be a sausage sizzle BBQ lunch at noon, in the shade of the covered picnic tables. The communications caravan will be on site in the carpark with tea, coffee, water and soft drinks, and there are even still some copies of the 2019 Club Calendar available. So prepare your antennas now, for the shootout.

The club conducts two nets each week; the mid-week net starts at 7:30pm on Thursday nights, and the weekend net starts at 9am on Sunday mornings. Both nets are on the VK2RPM 2 metre repeater, 146.7MHz. This repeater requires a 91.5Hz sub-audible tone for access.

Visitors are always made very welcome at the club's monthly general meetings at 2pm on the first Saturday of each month, and at the Friday night gathering at 7pm on the evening of the third Friday of each month. The venue for all these meetings is the SES Building in Port Macquarie.

For more information about the Oxley Region Amateur Radio Club, visit the website at [orarc.org](http://orarc.org). The site contains a wealth of Amateur Radio items in addition to club information. The January 2019 edition of the Club's bimonthly newsletter, Oxtales, is now online, and past issues are available on the website as well. The club is also on Facebook; just search for ORARC.

*Submitted by Henry VK2ZHE  
For the Oxley Region Amateur Radio Club.*

## Central Coast Amateur Radio Club

The Club lecture original scheduled for last week has been postponed, due to Dave being unwell with a sudden bout of food poisoning. The lecture has been rescheduled for June, and we are pleased to report that Dave has recovered (and will be more careful with the salmon next time).

Don't forget the CCARC Wyong Field Day next month; it is the biggest hamfest in the Southern Hemisphere, on Sunday the 24th February, at Wyong Racecourse.

Presentations confirmed so far include: "Impacts of Space Weather on Aviation" by Vickal Kumar; "How science works" by Brian VK2GCE; "Satellites and collecting telemetry" by Cameron VK2CKP; a talk on the RAVEN frequency-hopping military radio using valve technology by Ray VK2NO (which at the time was hush-hush); and a talk on the Multi Mode Digital Voice Modem (MMDVM) by Lindsay VK2AMV. There will also be raffle prizes on the day. Be sure to check the Field Day website for more information and updates.

In the meantime, should anyone have any photographs of the old Field Days, Vice-President Jaye VK2FOMG would love to hear from you. The club is also interested in collecting some early history about itself, as some has fallen by the wayside over the years. If anyone has stories, snippets, or even outright gossip, then please share them.

All meetings of the Central Coast Amateur Radio Club are held at the Club rooms in Dandaloo St, Kariong, just past the fire station at 1pm, preceded by the famous sausage sizzle run by master chef Steve VK2SKC, starting at noon. The Club rooms are accessible by bus, with a stop just opposite Dandaloo St, serviced by the route 34 bus from Gosford railway station every hour. The Club rooms are usually open from 10.30 every Saturday, for general chit-chat and access to the Club workshop and library.

The Club relays VK2WI News broadcasts every Sunday morning and evening. Callbacks are taken after the morning news only, on the Somersby 6m and 2m repeaters VK2RAG on 53.725 and 146.725 MHz respectively; please note that both repeaters require the standard sub-audible tone of 91.5 Hz.

The Club also runs a mixed-mode repeater VK2RAG on 439.950 MHz, which can provide access to P25 and other linked digital repeater networks. A 91.5 Hz tone is required for analogue access, and is highly recommended for receiving.

There is a net every Thursday evening on the 2m repeater VK2RAG on 146.725, starting at 8pm; all members are encouraged to join (especially if Club news for the ARNSW broadcast is involved). Club news is happily accepted at [publicity@ccarc.org.au](mailto:publicity@ccarc.org.au), preferably by 12 noon on Friday. Listeners can “join” the net by email to [netmaster@ccarc.org.au](mailto:netmaster@ccarc.org.au) and their comments will be read out.

The Club also has a Facebook page: just look for “centralcoastarc”, and be sure to “like” it to receive further updates. New on the page is some video of satellite activities, so be sure to visit and check it out.

There is also a Twitter account, @ccarclub [*pronounced “At CC AR Club”*], and now a Youtube channel as well.

Further information about the Central Coast Amateur Radio Club can be found on the website, [www.ccarc.org.au](http://www.ccarc.org.au), which has now been updated with a completely new look, and will be developing further soon, thanks to the Club’s dedicated IT team.

*Dave VK2KFU  
Publicity Officer, Central Coast Amateur Radio Club*

## Hunter Radio Group

The first meeting of the group for the year is coming up on Friday the 8<sup>th</sup> of February, at Adamstown Bowling Club, 504 Glebe Road, Adamstown. The meeting starts at 7:30pm.

The first Hunter Radio Group Broadcast will be on Monday the 4<sup>th</sup> of February starting at 7:30pm, through the 2 metre repeater VK2RNC on 146.9MHz and 438.025MHz; listen for VK2AWX. Callbacks will be taken after the broadcast.

*Submitted by Rodney VK2CN  
Secretary, Hunter Radio Group.*



## Blue Mountains Amateur Radio Club

The first Foundation training weekend for 2019 at the Club is on the weekend of the 9<sup>th</sup> and 10<sup>th</sup> of January.

The address is 4 Moore Street, Glenbrook. Please arrive at 8:30am for a 9am start, and the day should finish by about 5pm. Saturday will comprise training, and on Sunday will be an hour's revision, followed by theory and practical examinations.

Practical exams are carried out individually, so bring a book to read while you are waiting. Tea and coffee will be provided, but BYO lunch.

For full details on the weekend, including what you need to take with you, and the costs involved, you can visit the website at [www.bmarc.org/education](http://www.bmarc.org/education).

To register your interest for the weekend, or for any further information, contact the secretary by phone on 0438 606 740, or email [secretary@bmarc.org](mailto:secretary@bmarc.org), or email the Education Officer at [education@bmarc.org](mailto:education@bmarc.org).

*73 Jan VK2FEB*

*For the Blue Mountains Amateur Radio Club.*

## **Waverley Amateur Radio Society**

On this day exactly 100 years ago, the Waverley Amateur Radio Society, Australia's oldest continuously licensed amateur radio club, was formed and so commence the celebrations of its 100th anniversary!

To celebrate the club's centenary, members will activate the special event callsign VI2BV100 from the 27<sup>th</sup> of January until the 26<sup>th</sup> of April 2019. An additional special callsign, VI2BV, will be used over the same period on digital modes and in the Sydney Ferry Contest.

The then Waverley Amateur Radio Club was first licensed in 1920 as callsign N249, and has held the '2BV' callsign continuously since 1922, except for 1939 to 45, when all amateur licences were suspended during the Second World War. Join the Waverley Amateur Radio Society in celebrating 100 years by working the special event callsigns. See you on the bands!

This year's Amateur Radio Ferry Contest is coming up in just six weeks, on Sunday March 10<sup>th</sup>. Amateurs from all parts of Sydney and beyond will be taking their handhelds to the Harbour for the contest, now in its fourth year. Points are awarded for the number of contacts made, with multipliers for the number of ferries activated. Contacts can also be made from the many wharves around the Harbour, stretching from Manly, to Parramatta wharf on the Parramatta River. There are be a number of awards on offer, including the Worked All Ferries Award and a special Landlubbers Certificate, awarded to the highest scoring base station to contact the ferries.

This year, as the society is celebrating its 100th anniversary, extra points will be awarded for logging the club's special centenary callsign, Victor India 2 Bravo Victor.

Besides being a popular activity for Sydney amateurs, this is a great opportunity for visitors to have a day out on the harbour and explore the Sydney ferry network. In previous years, we have welcomed hams from all parts of the country as well as overseas. If you are planning a visit, make sure you bring your hand-held and say 'g'day' to some of the locals.

The contest is restricted to the VHF and UHF bands, including repeaters, and runs from 10am until 4pm on Sunday March 10th. Full details and rules are available on the club's website, [vk2bv.org](http://vk2bv.org).

Also on the website you can find regularly updated information about the Waverley Amateur Radio Society and its activities, as well as the capability to renew membership, purchase items or book and pay for courses or assessments online. There is also an enquiry form on the webpage, which is normally actioned within a day or two. The next Foundation course and assessments run by the Society, is over the weekend of 9<sup>th</sup> & 10<sup>th</sup> of February.

*73 from Eric VK2VE  
Broadcast Publicity Officer*

## St George Amateur Radio Society

The next gathering of the Society is on Wednesday evening, the 6<sup>th</sup> of February.

This month there will be a presentation by Dr. Brian Clarke VK2GCE.

Is it really so? Why do we remember Tim Flannery, Al Gore, Robert Mann, and Michael Moseley but forget Ernest Hemingway, Barry Jones, Thomas Kuhn, and Julius Sumner Miller? Are the laws of Isaac Newton and Georg Simon Ohm absolutely unbreakable?

Because events appear to be 'go together' reasonably frequently, is that enough for us to believe that one event causes the others? Is the acceptance of science a democratic process? Why are we so attracted to the 'quick fixes' so beloved of journalists and politicians?

Brian taught research methodology at 4 prestigious universities in the UK, where students taking his course consistently got 1st Class Honours degrees when his peers' students did not. He will give us a snapshot of the methods 'real scientists' use to explain how knowledge is gained, tested and discarded. Brian will dissect some of the questions posed here to help uncover what we really can accept and where we should be sceptical.

There will be the usual refreshments; All members, local amateurs and others interested are invited to attend.

The meeting rooms are at Donnelly Park, Kyle Parade, Connells Point – near South Hurstville, and the gathering starts at 7.30pm

The "What Three Words" address for the club is "torch bath frosted".

[\[http://map.what3words.com/torch.bath.frosted\]](http://map.what3words.com/torch.bath.frosted)

*Advised by Peter VK2EMU  
for the St George Amateur Radio Society*

## Hornsby and Districts Amateur Radio Club

The 12<sup>th</sup> of February meeting will be replaced with a family-friendly dinner at Magpies, opposite Waitara railway station. RSVP to Bob VK2ZRM.

The next meeting at Mt Colah will be on the 26<sup>th</sup> of February. If you have a presentation you would like to give then, please let the club know.

The Club runs three nets each week, which continue over the holiday period. Monday's net starts at 8pm on the VK2RNS 2 metre repeater, 147.250MHz. No tone is required, but a 91.5 Hz tone is sent. The 80 metre net is on Wednesday evenings on 3608.5 kHz, also from 8pm, and Morning Tea with HADARC is on or near 7106 kHz from 9am on Fridays.

HADARC's website is at: [www.hadarc.org.au](http://www.hadarc.org.au). The club has a group on Facebook, which can be found by searching for VK2MA, and on twitter, @VK2MA.

*Submitted by Julian VK2YJS  
HADARC Publicity Officer.*

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## **Summary of coming events;**

### **January**

ARNSW Trash & Treasure and Experimenters Group meeting on the 27<sup>th</sup>  
Fisher's Ghost ARC meeting at Woodbine on the 30<sup>th</sup>  
Manly-Warringah "Fifth Wednesday" show-and-tell night on the 30<sup>th</sup>

### **February**

Oxley Region ARC meeting on the 2<sup>nd</sup>  
St George ARS gathering at Kyle Bay on the 6<sup>th</sup>  
Hunter Radio Group meeting on the 8<sup>th</sup>  
Chifley Amateur Radio Club AGM, 2pm at their clubrooms on the 9<sup>th</sup>  
St George ARS Foundation and Assessment Weekend, 9<sup>th</sup> and 10<sup>th</sup>  
Waverley ARS Foundation and Assessments, also on the 9<sup>th</sup> and 10<sup>th</sup>.  
WICEN training day at ARNSW on the 10<sup>th</sup>  
Oxley Region antenna shootout on the 10<sup>th</sup>  
Summerland ARC AGM also on the 10<sup>th</sup>; 1 pm at the club rooms.  
HADARC family dinner meeting at Waitara, on the 12<sup>th</sup>  
The CCARC's Wyong Field Day, Sunday the 24<sup>th</sup>  
At Wyong on the 24<sup>th</sup>, there is also the Oz-VE group US licence exams.  
HADARC monthly general meeting on the 26<sup>th</sup>

### **March**

ARNSW Council nominations close on the 2<sup>nd</sup>  
WICEN training weekend at Newnes on the 2<sup>nd</sup> and 3<sup>rd</sup>  
40 Metre Dipole Buildathon at ARNSW on the 10<sup>th</sup>  
Sydney Amateur Radio Ferry Contest, Sunday the 10<sup>th</sup>